

INTERNATIONAL SEARCH REPORT

PCT/GB2004/003488

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08B37/00 C07K1/107 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08B C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, BIOSIS, IBM-TDB, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 5 329 028 A (ASHKENAZI AVI J ET AL) 12 July 1994 (1994-07-12) column 2, lines 14-16; figure 1 | 1-13, 16-22 |
| Y | column 6, lines 21-45 column 13, line 39 - column 14, line 37 ----- -/-- | 14,15 |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

11/11/2004

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | <p>S. M. CHAMOW ET AL.: "Conjugation of Soluble CD4 without Loss of Biological Activity via a Novel Carbohydrate-directed Cross-linking Reagent"</p> <p>THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 22, 5 August 1992 (1992-08-05), pages 15916-15922, XP002267698 USA</p> <p>* The abstarct and the reaction scheme on page 15918 *</p> <p>page 15617, left-hand column, paragraph 2 - right-hand column, paragraph 3</p> <p>page 15920, right-hand column, paragraph 3</p> | 1-13, 16-22 |
| X | <p>WO 01/87922 A (GREGORIADIS GREGORY ; LIPOXEN TECHNOLOGIES LTD (GB))</p> <p>22 November 2001 (2001-11-22)</p> <p>cited in the application</p> <p>page 6, column 23 - page 7, column 6;</p> <p>claims 1,10,11,16; example 4</p> | 7,8 |
| X | <p>JAIN S ET AL: "Polysialylated insulin: synthesis, characterization and biological activity in vivo"</p> <p>BBA - GENERAL SUBJECTS, ELSEVIER SCIENCE PUBLISHERS, NL,</p> <p>vol. 1622, no. 1,</p> <p>20 June 2003 (2003-06-20), pages 42-49, XP004433607</p> <p>ISSN: 0304-4165</p> <p>page 46; figure 1</p> | 7,8 |
| Y | <p>MACMILLAN D ET AL: "SELECTIVE IN VITRO GLYCOSYLATION OF RECOMBINANT PROTEINS: SEMI-SYNTHESIS OF NOVEL HOMOGENEOUS GLYCOFORMS OF HUMAN ERYTHROPOIETIN"</p> <p>CHEMISTRY AND BIOLOGY, CURRENT BIOLOGY, LONDON, GB,</p> <p>vol. 8, no. 2, 2001, pages 133-145, XP000998149</p> <p>ISSN: 1074-5521</p> <p>page 134, right-hand column, paragraph 2; figure 1</p> | 14,15 |
| Y | <p>DATABASE WPI</p> <p>Section Ch, Week 198013</p> <p>Derwent Publications Ltd., London, GB;</p> <p>Class A60, AN 1980-23224C</p> <p>XP002267699</p> <p>& SU 675 053 A (AS USSR PROTEINS)</p> <p>29 July 1979 (1979-07-29)</p> <p>abstract</p> | 14,15 |
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| A | US 5 965 532 A (BACHOVCHIN WILLIAM W) 12 October 1999 (1999-10-12) column 47, line 47 - column 48, line 23 ----- | 1 |

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